SEQUENCE LISTING

INS.	A4/2) INFORMATION FOR SEQ ID NO: 1:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2107 (B) TYPE: Nucleic acid (C) STRANDEDNESS: Double (D) TOPOLOGY: Linear	
	(ii) MOLECULE TYPE: CDNA	
	(vi) ORIGINAL SOURCE: Human	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
	GGCTCCTTAC CCACCCGGAG ACTTTTTTT GAAAGGAAAC TAGGGAGGGA GGGAGAGGGA	60
	GAGAGGAGA AAACGAAGGG GAGCTCGTCC ATCCATTGAA GCACAGTTCA CT ATG Met 1	1.15
ngrahoc . teten	ATC TTA CTC ACA TTC AGC ACT GGA AGA CGG TTG GAT TTC GTG CAT CAT Ile Leu Leu Thr Phe Ser Thr Gly Arg Leu Asp Phe Val His His 15	163
	TCG GGG GTG TTT TTC TTG CAA ACC TTG CTT TGG ATT TTA TGT GCT ACA Ser Gly Val Phe Phe Leu Gln Thr Teu Neu Trp Ile Leu Cys Ala Thr 20 25 30	211
uncorping 	GTC TGC GGA ACG GAG CAG TAT TTO AAT GTG GAG GTT TGG TTA CAA AAG Val Cys Gly Thr Glu Gln Tyr Phe Asn Val Glu Val Trp Leu Gln Lys 35 40 45	259
	TAC GGC TAC CTT CCA CCG ACT AGC CCC AGA ATG TCA GTC GTG CGC TCT Tyr Gly Tyr Leu Pro Pro Thr Ser Pro Arg Met Ser Val Val Arg Ser 50 55 60 65	307
	GCA GAG ACC ATG CAG TCT GCC CTA GCT GCC ATG CAG CAG TTC TAT GGC Ala Glu Thr Met Gln Ser Ala Leu Ala Ala Met Gln Gln Phe Tyr Gly 70 75 80	355
	ATT AAC ATG ACA GGA AAA GTG GAC AGA AAC ACA ATT GAC TGG ATG AAG Ile Asn Met Thr Gly Lys Val Asp Arg Asn Thr Ile Asp Trp Met Lys 85 90 95	403
	AAG CCC CGA TGC GGT GTA CCT GAC CAG ACA AGA GGT AGC TCC AAA TTT Lys Pro Arg Cys Gly Val Pro Asp Gln Thr Arg Gly Ser Ser Lys Phe 100 105 110	451
	CAT ATT CGT CGA AAG CGA TAT GCA TTG ACA GGA CAG AAA TGG CAG CAC His Ile Arg Arg Lys Arg Tyr Ala Leu Thr Gly Gln Lys Trp Gln His 115 120 125	499

						\											
AA											ACT Thr 140						547
											TTT Phe						595
							١.				TAC Tyr						643
											TTT Phe						691
											GGA Gly						739
	TAC Tyr 210	TTC Phe	CCT Pro	GGA Gly	CCA Pro	GGA Gly 215	ATT Ile	GGA Gly	A 1ly	GAT Asp	ACC Thr 220	CAT His	TTT Phe	GAC Asp	TCA Ser	GAT `Asp 225	787
	GAG Glu	CCA Pro	TGG Trp	ACA Thr	CTA Leu 230	GGA Gly	AAT Asn	CCT Pro	AAR	CAT His 235	GAT Asp	GGA Gly	AAT Asn	GAC Asp	TTA Leu 240	TTT Phe	835
											CTG Leu						883
											TAC Tyr						931
-											dAT His						979
											CTA Leu 300						1027
											AAA Lys						1075
											TAT Tyr						1123
											GCT Ala						1171
														`			

Met Phe Val Phe Lys Asp Gin Trp Phe Trp Arg Val Arg Asn Asn Arg 360 GTG ATG GAT GGA TAC CCA ATG CAA ATT ACT TAC TTC TGG CGG GGC TTG Val Met Asp Gly Tyr Ryo Met Gin Tie Thr Tyr Phe Trp Arg Gly Leu 370 CCT CCT AGT ATC GAT GCA GTG TAT GAA AAT AGC GAC GGG AAT TTT GTG Pro Pro Ser Ile Asp Ala Val Tyr Glu Asn Ser Asp Gly Asn Phe Val 390 TTC TTT AAA GGT AAC AAA TAT TGG GTG TTC AAG GAT ACA ACT CTT CAA Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp Thr Thr Leu Gln 410 CCT GGT TAC CCT CAT GAC TTG ATA ACC CTT GGA AGT GGA ATT CCC CCT Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser Gly Ile Pro Pro 420 CAT GGT ATT GAT TCA GCC ATT TGG TGG GAG GAC GTC GGG AAA ACC TAT His Gly Ile Asp Ser Ala Ile Trp Tap Glu Asp Val Gly Lys Thr Tyr 435 ATC TTC TC AAG GGA GAC AGA TAT TGG AGA TAT AGT GAA AAT GAA ACC TAT THE ASP Arg Tyr Trp Arg Tar Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA CTC TGG AAA AGG AAT GAC ACC Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tar Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA CTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Wal Trp Lys Gly Ile Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT GLU Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 495 TTC TAC AAG GAA GAC ATT TG GAA ATC CAA CAA ACA ACC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Th Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA CTA TCC CTC AAG GAT TAT TCC GGC TGT Leu Clu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA CAC AGC CAA CAC AGC CAA CAC AGA AAF SAF ASP Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC CAT ACA GAC AGA GAT AAA CTG GAC ACC AGC CAA CAC AGC CAA CAC AGA GAC AAF GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Ays Ala 550																		
Val Met Asp Gly Tyr Ryo Met Gln Ile Thr Tyr Phe Trp Arg Gly Leu 370 CCT CCT AGT ATC GAT GCA GCT TAT GAA AAT AGC GAC GGG AAT TTT GTG Pro Pro Ser Ile Asp Ala val Tyr Glu Asn Ser Asp Gly Asn Phe Val 390 TTC TTT AAA GGT AAC AAA TAT TGG GTG TTC AAG GAT ACA ACT CTT CAA Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp Thr Thr Leu Gln 415 CCT GGT TAC CCT CAT GAC TTG ATA ACC CTT GGA AGT GGA ATT CCC CCT Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser Gly Ile Pro Pro 420 CAT GGT ATT GAT TCA GCC ATT TGG GG GAG GAC GTC GGG AAA ACC TAT His Gly Ile Asp Ser Ala Ile Trp Typ Glu Asp Val Gly Lys Thr Tyr 435 TTC TTC AAG GGA GAC AGA TAT TGG AGA TTT GAT ACC GTC GGA AAA ACC TAT THA AGA CAC TTC TTC TAG AGG GAG GAC GTC GGG AAA ACC TAT TGG AGA ATT TTC TTC AAG GGA GAC ACA TAT TGG AGA TTT TAG GAC AAC ACA GTC TAG AAA ACA Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA GTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 550 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TAT TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TTA TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 525 GAT GGA CCA ACA GAC AGA AGA AGA AAC ACA GCC CA ACA GAT GAT ASp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC ATT GTC ATC AAA ACT GGA AAC ACA GCC CA CAC GAT GAT AAA GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Asp Ala Sc AAA ACC ACT GTC CTT GTA TTG GCC TTA TCC CTT GTA TTG GCC TTA TGC CTC CTT GTA TTG Ile	AA	ATG Met	Phe	GTT Val	TTC Phe	AAG Lys	GAC Asp	Gln	TGG Trp	TTT Phe	TGG Trp	CGA Arg	Val	AGA Arg	AAC Asn	AAC Asn	AGG Arg	1219
Pro Pro Ser Ile Asp Ala Val Tyr Glu Asn Ser Asp Gly Asn Phe Val 390 TTC TTT AAA GGT AAC AAA TAT TGG GTG TTC AAG GAT ACA ACT CTT CAA Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp Thr Thr Leu Gln 405 CCT GGT TAC CCT CAT GAC TTG ATA ACC CTT GGA AGT GGA ATT CCC CCT Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser Gly Ile Pro Pro 420 CAT GGT ATT GAT TCA GCC ATT TGG TGG GAG GAC GTC GGG AAA ACC TAT His Gly Ile Asp Ser Ala Ile Trp Typ Glu Asp Val Gly Lys Thr Tyr 435 TTC TTC AAG GGA GAC AGA TAT TGG AGA TAT AGT GAA GAA ATG AAA ACA Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA GTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile Pro 470 GAA TCT CCT CAG GGA GAC ATT TGTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TAT TGG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GAA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 ATA GCT ATT GTC ATT CCC TGC ATC TTG GAC TTT TAC CTC TTA TGC CTC TGTA TTG AAA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT TACA TTT TACA CCC TTA AAA GCC ATT GTC AAA CTG GAC AAA CAC ACC AGC ACC ACCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT TTTTT		Val					ķγo					Tyr					Leu	1267
Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp Thr Thr Leu Gln 405 CCT GGT TAC CCT CAT GAC TTG ATA ACC CTT GGA AGT GGA ATT CCC CCT Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser Gly Ile Pro Pro 420 CAT GGT ATT GAT TCA GCC ATT TGG TGG GAG GAC GTC GGG AAA ACC TAT His Gly Ile Asp Ser Ala Ile Trp Tap Glu Asp Val Gly Lys Thr Tyr 435 TTC TTC AAG GGA GAC AGA TAT TGG AGA ATT AGT GAA ATG AAA ACA Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA GTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TAT TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA AAC AGC AGC CCA CA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG ATA GCT ATT GTC ATT CCT TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG ATA GCT ATT GTC ATT CCT TTG CTC TTG GCC TTA TGC CTC CTT GTA TTG ATA GCT ATT GTC ATT CCT TTG CTC TTG GCC TTA TGC CTC CTT GTA TTG						Asp					Asn					Phe		1315
Pro Gly Tyr Pro His Asp Leu 112 Thr Leu Gly Ser Gly 11e Pro Pro 425 CAT GGT ATT GAT TCA GCC ATT TGG TGG GAG GAC GTC GGG AAA ACC TAT His Gly 11e Asp Ser Ala 11e Trp TAP Glu Asp Val Gly Lys Thr Tyr 440 TTC TTC AAG GGA GAC AGA TAT TGG AGA TAT AGT GAA GAA ATG AAA ACA Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA GTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro 11e Thr Val Trp Lys Gly 11e Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACC AGC TTT ACG TAT Glu Ser Pro Gly Val Leu Glu 11e Gln Thr Th Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TTA TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser 11e Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT ASp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG 11e CTC ATT GTA TTG TAT TTG TTA TTG TTA TTG TTA TTG TTA TTG TAT TTG TTA TTG					Gly					Val					Thr			1363
His Gly Ile Asp Ser Ala Ile Trp Tap Glu Asp Val Gly Lys Thr Tyr 445 TTC TTC AAG GGA GAC AGA TAT TGG AGA TAT AGT GAA GAA ATG AAA ACA Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA GTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACA AGC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TAT ACG TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG III			Gly	Tyr					119					Gly				1411
Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr 450 ATG GAC CCT GGC TAT CCC AAG CCA ATC ACA GTC TGG AAA GGG ATC CCT Met Asp Pro Gly Tyr Pro Lys Pro IIe Thr Val Trp Lys Gly IIe Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACA ACA ACA ACA AGC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu IIe Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TATA TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser IIe Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC ATT GTC ATC AAA CTG GAC AAC ACA GCC AGC ACT GTG AAA GCC Val Asp IIe Val IIe Lys Leu Asp Asn Thr Ala Ser Thr Val Lys Ala 550 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG 186			Gly					Ile					Val					1459
Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile Pro 470 GAA TCT CCT CAG GGA GCA TTT GTA CAC AAA GAA AAT GGC TTT ACG TAT Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TTA TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC ATT GTC ATC AAA CTG GAC AAC ACA GCC AGC ACC GTG AAA GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Lys Ala 550 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG		Phe					Arg					Ser					Thr	1507
Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr 485 TTC TAC AAG GAA GGA GTA TTG GAA ATT CAA ACA ACC AGA TAC TCA AGG Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TTA TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC ATT GTC ATC AAA CTG GAC AAC ACA GCC AGC ACT GTG AAA GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Lys Ala 550 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG						Tyr					Thr'					Ile		1555
Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser Arg 500 CTA GAA CCT GGA CAT CCA AGA TCC ATC CTC AAG GAT TTA TCG GGC TGT Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC ATT GTC ATC AAA CTG GAC AAC ACA GCC AGC ACT GTG AAA GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Lys Ala 550 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG					Gln					His					Phe			1603
Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly Cys 515 GAT GGA CCA ACA GAC AGA GTT AAA GAA GGA CAC AGC CCA CCA GAT GAT Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 GTA GAC ATT GTC ATC AAA CTG GAC AAC ACA GCC AGC ACT GTG AAA GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Lys Ala 550 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG				Lys					Glu					Arg				1651
Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp Asp 530 545 GTA GAC ATT GTC ATC AAA CTG GAC AAC ACA GCC AGC ACT GTG AAA GCC Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Ays Ala 550 555 560 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG 18			Glu					Arg					Asp					1699
Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Ays Ala 550 555 560 ATA GCT ATT GTC ATT CCC TGC ATC TTG GCC TTA TGC CTC CTT GTA TTG 18		Asp					Arg					His					Asp	1747
						Ile					Thr					Дуs		1795
565 570 575 The field head of the field value of th					Val					Leu					Leu			1843

AH

Asp Pro Glu Thr Arg Lys Ala Ile Arg Arg Ala Phe Asp Val Trp Gln 150 Asn Val Thr Pro Leu Thr Phe Glu Glu Val Pro Tyr Ser Glu Leu Glu 165 Asn Gly Lys Arg Asp Val\Asp Ile Pro Ile Ile Phe Ala Ser Gly Phe 185 His Gly Asp Ser Ser Pro Phe Asp Gly Glu Gly Gly Phe Leu Ala His Ala Tyr Phe Pro Gly Pro Gly Ne Gly Asp Thr His Phe Asp Ser Asp Glu Pro Trp Thr Leu Gly Asn His Asp Gly Asn Asp Leu Phe Leu Val Ala Val His Glu Ley Gly His Ala Leu Gly Leu Glu His 245 250 255Ser Asn Asp Pro Thr Ala Ile Met Ala Pro\Phe Tyr Gln Tyr Met Glu 265 Gln Thr Leu Gln Leu Pro Asn Asp Asp Tyr Arg His Gln Arg Tyr Met 280 Ser Pro Asp Lys Ile Pro Pro Pro Thr Arg Pro Leu Pro Thr Val Pro Pro His Arg Ser Ile Pro Pro Ala Asp Pro Arg Lys Asn Asp Arg Pro Lys Pro Pro Arg Pro Pro Thr Gly Arg Pro Ser Tyr Pro\Gly Ala Lys Pro Asn Ile Cys Asp Gly Asn Phe Asn Thr Leu Ala Ile Let Arg Arg 350 Glu Met Phe Val Phe Lys Asp Gln Trp Phe Trp Arg Val Arg Asn Asn Arg Val Met Asp Gly Tyr Pro Met Gln Ile Thr Tyr Phe Trp Arg Gly Leu Pro Pro Ser Ile Asp Ala Val Tyr Glu Asn Ser Asp Gly Asn Phè 395 Val Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp Thr Thr Leu Gln Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser Gly Ile Pro 425 Pro His Gly Ile Asp Ser Ala Ile Trp Trp Glu Asp Val Gly Lys Thr 440

Tyr Phe Phe Lys aly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys

Thr Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile

Pro Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr 485

Tyr Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser

Arg Leu Glu Pro Gly His pro Arg Ser Ile Leu Lys Asp Leu Ser Gly 520

Cys Asp Gly Pro Thr Asp Varg Val Lys Glu Gly His Ser Pro Pro Asp

Asp Val Asp Ile Val fle Lys Leu Asp Asn Thr Ala Ser Thr Val Lys

Ala Ile Ala Ile .Val Ile Pro Cys Ile Leu Ala Leu Cys Leu Leu Val 570

Leu Val Tyr Thr Val Phe Gln Phe Lys Arg Lys Gly Thr Pro Arg His 585 580

Ile Leu Tyr Cys Lys Arg Ser Met Gln Glu Trp Val

(2) INFORMATION FOR SEQ ID NO: 3\:

SEQUENCE CHARACTERISTICS:

(A) LENGTH:

20

(B) TYPE:

Nucleic acid

(C) STRANDEDNESS: Single

(D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE:

Other nucleic acid

Synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ TO NO: 3:

SGNVVNGCWG AYATMRTSAT

20

- (2) INFORMATION FOR SEQ ID NO: 4:
 - SEQUENCE CHARACTERISTICS:
 - (A) LENGTH:

27

(B) TYPE:

Nucleic acid

- (C) STRANDEDNESS: Single
- (D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE:

Other nucleic actid

Synthetic DNA

Ser Ala 18

SEQ ID NO: 4: (xi)\SEQUENCE DESCRIPTION: 27 YTCRTSNTCR\TCRAARTGRR HRTCYCC (2) INFORMATION FOR SEQ ID NO: 5: SEQUENCE CHARACTERISTICS: (i) (A)\LENGTH: Amino acid (B) TYPE: (C) TOPOLOGY: Linear (ii) MOLECULE TYPE: Peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: Gln Thr Arg Gly Ser Ser, Lys Phe His Ile Arg Arg Lys Arg 14 (2) INFORMATION FOR SEQ ID NO: 6: SEQUENCE -CHARACTERISTICS: (A) LENGTH: 14 (B) TYPE: Amino acid (C) TOPOLOGY: Linear (ii) MOLECULE TYPE: Peptide (xi) SEQUENCE DESCRIPTION ₹ SEQ ID NO: 6: Glu Glu Val Pro Tyr Ser Glu Leu Glu Asn Gly Lys Arg Asp 1 (2) INFORMATION FOR SEQ ID NO: 7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: (B) TYPE: Amino acid (C) TOPOLOGY: Linear Peptide (ii) MOLECULE TYPE: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:

Pro Thr Ser Pro Arg Met Ser Val Val Arg Ser Ala Glu Thr Met Gln

10

AA(2) INFORMATION FOR SEQ ID NO: 8:

- SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 14

 (B) TYPE: Amino according to the control of the contr

Amino acid

(ii) MOLECULE TYPE

Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Thr Leu Gly Asn Pro Asn His Asp Gly Asn Asp Leu Phe Leu 1 5 10 14

US 0973400206P1



Creation date: 10-21-2003

Indexing Officer: CTO - CUONG TO

Team: OIPEBackFileIndexing

Dossier: 09734002

Legal Date: 03-21-2001

No. Doccode	Number of pages
1 LET	1
2 1	1
3 SEQLIST	10

Total number of pages: 12

Remarks:

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